DOCUMENT RESUME

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IDENTIFIERS Computer Assisted Design

ABSTRACT

This courseware evaluation rates the Design Your Own Home program developed by Avant-Garde Publishing Company. (The program--not contained in this document--uses standard architectural scales and 126 shapes to allow creation of structural floorplans and sideviews.) Part A describes the program in terms of subject area and hardware requirements (Apple II, graphics pad, and joystick, paddle, or mouse), indicates its suitability for use in grades 11-12 for regular or gifted classes, and gives a time estimate (1-2 weeks). Accompanying materials include manual, student workbook, and teacher guide. Availability information includes preview policy (30 days), backup policy, and contact address. Part B contains the evaluation criteria in eight categories; reviewer ratings appear as yes, somewhat, no, and not applicable, with explanatory comments. Part C summarizes the evaluation. The program received yes ratings for student interaction, work behaviors, and application programs; and somewhat for subject matter, technical presentation, and documentation. A good introduction to computer-assisted design, the program takes patience to learn; it is difficult to set accurately scaled drawings and to print. The program is recommended as a supplement to existing courses. (SK)

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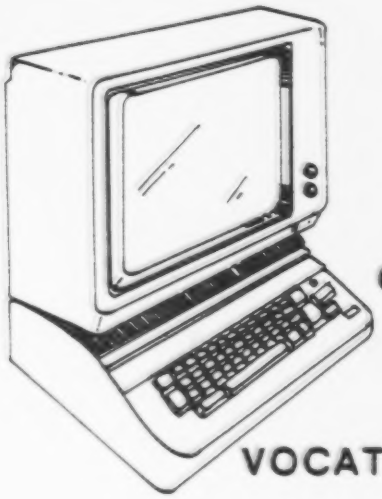

DESIGN YOUR OWN HOME.

COURSEWARE EVALUATION

FOR

VOCATIONAL AND TECHNICAL EDUCATION

The evaluation of this courseware program was conducted by a team participating in the Courseware Evaluation Network. The Network, established in 1985, is coordinated by the National Center for Research in Vocational Education under the sponsorship of the U.S. Department of Education, Office of Vocational and Adult Education. The purpose of the Network is to identify and evaluate microcomputer courseware, and to disseminate courseware reviews for vocational and technical education.

Each Network team includes three members, at least one of which is, or recently has been, a vocational or technical teacher in the subject matter area of the courseware being evaluated. The evaluation represents a synthesis of the opinions of the team members. It is suggested that the evaluation be used as a first screening device for courseware and that the teacher also evaluate the courseware program on the basis of specific student needs.

The Courseware Evaluation: Form and Guide used for all of the Network evaluations was developed by the National Center and is available through its cost-recovery system.

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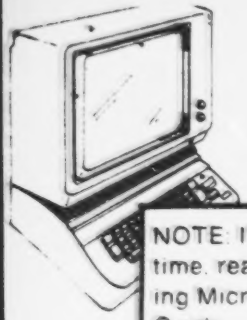

COURSEWARE EVALUATION FORM

NOTE: If you are using this form for the first time, read the instructions in the accompanying Microcomputer Courseware Evaluation Guide

Evaluator Gordon Turner; Earl Gates; Doug Beard
Position
Date 6/15/87

Part A: Courseware Description

In the following sections, record descriptive information about the courseware that you are evaluating

I. IDENTIFICATION

Program Title Design Your Own Home. Date 1984

Series Title Architectual Design.

Vocational Area(s) Technical Education

Subject Area(s) Drafting;Technical Drawing

Topic(s) Floor Plans

Developing Agency Avant-Garde Publishing Company

Street or P.O. Box P.O. Box 30160

City Eugene, State OR. Zip 97403 Phone( )

Author(s) Don Fudge

Programmer(s)

II. HARDWARE REQUIREMENTS

Microcomputer* Apple II Series
(brand/model)

K Memory Required 48K
(number)

Medium of Transfer (include number of each):

- __ Tape cassette
- __ ROM cartridge
- X 5¼" Flexible disk
- __ 8" Flexible disk
- __ Other ____ (specify)

Programming Language Apple Software DOS Specifications 3.3

Other Specifications

Peripherals Needed (check all that apply):

- X Color monitor
- X One disk drive
- X Two disk drives
- __ Plotter
- X Game paddle(s)
- X Joystick(s)
- __ Modem
- X Mouse
- __ Printer
- X Graphics tablet
- __ Light pen
- __ Voice/sound instrument
- __ Clock
- __ Video disk
- __ Touch screen
- __ Ten-key number pad
- X Other Kohb-2 (specify)

*NOTE: Provide the above information for any additional hardware on which this program can be used. Two versions: One uses a joystick or a Paddle, the other uses a mouse.

III PROGRAM FEATURES (check all that apply):

- ___ Network version provided
- ___ Multiple copies required
- ___ Program can be modified
- X Program protected
- X Data disk needed
- ___ Field-test data available

IV INSTRUCTIONAL SETTING

Program mode (check all that apply):

- X Application
- ___ Drill and practice
- ___ Educational gaming
- ___ Simulation
- ___ Tutorial
- ___ Other _____ (specify)

Student Target Population (check all that apply):

- X Regular
- ___ Disadvantaged
- ___ Handicapped
- ___ Limited English
- ___ Bilingual
- X Gifted

Grade Level (check all that apply):

- ___ K-6
- ___ 7-8
- X 9-10
- X 11-12
- ___ 13-14
- ___ Adult
- ___ Higher Education

Instructional Grouping (check all that apply):

- X Individual
- X Small group (up to 4)
- ___ Large group (4 or more)
- ___ competitive interaction
- ___ cooperative interaction

Prerequisite Student Skills (specify) Basic knoledge of drawing.

Accompanying Materials (specify types):

Documentation 40 pages

Student support materials Workbook

Teacher support materials Guide

Correlated materials _____

Estimated Time for Use 1-2 weeks to learn basics of program.

V AVAILABILITY

- ___ Free _____ (copies)
- ___ Loan _____ (time)
- ___ Duplication (requestor supplies disk)
- X Sale $ _____
- ___ Rent $ _____ _____ (time)

Copyright Restrictions (explain) Copyrighted.

Back-up Policy (explain) Back-ups available at charge.

Preview Policy (explain) 30 days or a P.O.

Update Policy (explain) _____

Contact Avante Guarde

Street or P.O. Box P.O. Box 30160

City Eugene, State OR. Zip 97403 Phone ( ) _____

Part B: Courseware Evaluation Criteria

Indicate the applicability of each section to the courseware being evaluated by checking either "___ A" (applicable) or "___ N/A" (not applicable). If a section is not applicable, proceed to the next section. If a section is applicable, check the column that indicates how well the courseware meets each criterion. Include any comments.

	YES	SOME-WHAT	NO	N/A	COMMENTS
I. SUBJECT MATTER X A ___ N/A					
1. Subject matter has educational value.	X				
2. Student objectives are stated.		X			
3. Subject matter is accurate.	X				
4. Subject matter is logically presented.		X			
5. Subject matter is free of race, ethnic, sex, and other stereotypes.	X				
6. Subject matter is on the level of the students.		X			
7. Information and skills presented are comparable to those used in the home, business, or industry.		X			
8. Subject matter motivates students to learn.		X			
9. Subject matter is reviewed and summarized.				X	
10. Program utilizes the unique capabilities of the microcomputer to present the subject matter.	X				
II. TECHNICAL PRESENTATION X A ___ N/A					
1. Program is free of technical problems.		X			
2. Presentation rate is adequate to maintain interest.	X				
3. Information on the screen is easy to read.	X				
4. Program is free of spelling and grammatical errors.	X				
5. Program instructions are easy to follow.		X			
6. Color increases the instructional value of the program.			X		
7. Audio increases the instructional value of the program.				X	
8. Graphics increase the instructional value of the program.	X				

	YES	SOME-WHAT	NO	N/A	COMMENTS
III. STUDENT INTERACTION X A ___ N/A					
1. Students can use the program with minimal assistance.		X			
2. Students are actively involved in the program.	X				
3. Students control the pace of the program.	X				
4. Students can access the program "menu(s)" to change activities.	X				
5. Students are permitted to change answers.				X	
6. Methods of responding correspond to the level of the program.		X			
7. Students' errors of entry are processed so that the program continues to run.				X	
8. Students can access available "help" and "hint" options at any time.				X	
9. Students can enter or exit the program as desired.	X				
10. Students control the sequence of the program.	X				
IV. PROGRAM INTERACTION ___ A X N/A					
1. Feedback is immediate.					
2. Cues and prompts are provided to assist students in answering correctly.					
3. Feedback reinforces the correct responses.					
4. Feedback is nonthreatening.					
5. Program helps students understand wrong answers.					
6. Program gives the correct answer after a reasonable number of tries.					
7. Positive reinforcement is varied.					
8. Program has the ability to branch/loop depending upon students' performance.					
9. Feedback is on the level of the student.					
V. STUDENT EVALUATION ___ A X N/A					
1. Evaluation provides a means for measuring attainment of objectives.					
2. Program reports which items were missed and which were correct.					

	YES	SOME-WHAT	NO	N/A	COMMENTS
V. STUDENT EVALUATION—*Continued*					
3. Individual student performance results are available to the teacher					
4. Class performance results are available to the teacher					
5. Program provides for printed copies of evaluations					
6. Test item formats are suited to the material being tested					
7. Test items are clearly stated					
8. Test item bank is provided					
VI. DOCUMENTATION _X_ A ___ N/A					
1. Documentation is easy to understand		X			
2. Documentation is accurate	X				
3. Student objectives are stated			X		
4. Underlying concepts are outlined			X		
5. Skills to be developed are specified			X		
6. Procedures for integrating the program into the curriculum are provided			X		
7. Follow-up activities are suggested			X		
8. Documentation explains the intended use of support materials	X				
9. Sufficient information is provided to operate the program	X				
VII. WORK BEHAVIORS _X_ A ___ N/A					
1. Program helps students identify their vocational skills		X			
2. Program promotes pride in work	X				
3. Program promotes productivity	X				
4. Program encourages good work habits	X				
5. Problem solving is encouraged	X				
6. Program promotes good human relations skills				X	
7. Program provides an opportunity for work satisfaction and self-fulfillment	X				
8. Program encourages creativity	X				

Part B: Courseware Evaluation Criteria

	YES	SOME-WHAT	NO	N/A	COMMENTS
VIII. APPLICATION PROGRAMS _X_ A ___ N/A (to be completed for application programs **only**)					
1. Program is adaptable to the needs of the student.	X				
2. Commands are easily remembered.		X			
3. Information is easily manipulated.	X				
4. Corrections are easy to make.	X				
5. Program includes all necessary variables.	X				
6. Program performs reliably.	X				
7. Program efficiently achieves its intended purpose.	X				
8. Trial data are supplied for learning to run the program.	X				
9. Program provides for use of printer when hard copy of information is advantageous.	X				
10. Program moves from operation to operation efficiently.	X				
11. Program is compatible with other application programs.		X			
12. Program has a supplementary tutorial program available.			X		

Part C: Courseware Evaluation Summary

1. SUMMARY COMMENTS

Identify strengths of the courseware.

Good introduction to CAD.

Identify weaknesses of the courseware.

Takes patience to learn controls.
Difficult to set accurately scaled drawings.

Describe uses of the courseware in an instructional setting.

Use to supplement existing course.

2. SUMMARY OF SECTION

Rate the quality of the courseware for each applicable section of this form by checking the appropriate column; if not applicable, check N/A.

	YES	SOME-WHAT	NO	N/A
I. SUBJECT MATTER: Content has educational value.		X		
II. TECHNICAL PRESENTATION: Program is free of malfunctions.		X		
III. STUDENT INTERACTION: Students are actively involved with the program.	X			
IV. PROGRAM INTERACTION: Feedback is effectively employed.				X
V. STUDENT EVALUATION: Evaluation adequately measures student progress				X
VI. DOCUMENTATION: Documentation is sufficient to run the program.		X		
VII. WORK BEHAVIORS: Program assists students in developing positive work attitudes and skills.	X			
VIII. APPLICATION PROGRAMS: Program performs the task for which it is intended.	X			

3. FINAL RECOMMENDATION

Check your recommendation for the courseware and explain your reasons below.

___ Highly recommend
X Recommend
___ Recommend with reservations
___ Do not recommend

Difficult to print, however students could use the program when printed to evaluate sketches.